SHARP

MUSIC SYSTEM FOR iPod®

MODEL

DK-A10H
DK-A10H(BK)

OPERATION MANUAL

If you require any advice or assistance regarding your Sharp product, please visit our website www.sharp.co.uk/customersupport.aspx Customers without Internet access may telephone 0845 880 0512 during office hours (or (01) 676 0648 if telephoning from Ireland).

Made for iPod

iPod is a registered trademark of Apple Computer, Inc.

R·D·S

ENERGY

SAVING ENERGY STAND-BY POWER CONSUMPTION 0.6W

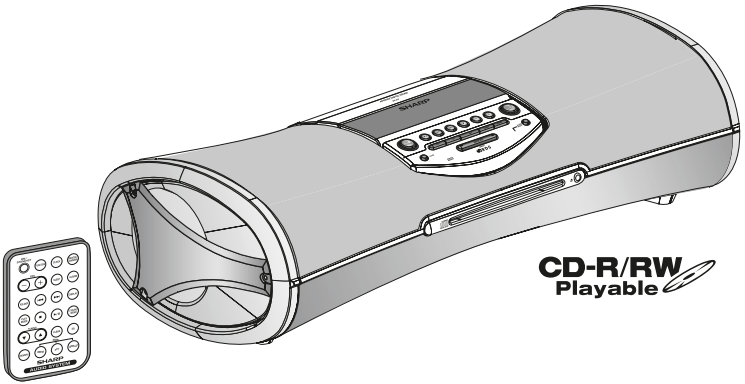
COMPACT disc DIGITAL AUDIO

Plays Windows Media™

MP3

Thank you for purchasing this SHARP product.
To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.

The illustrations printed in this operation manual are for the model DK-A10H.



Special notes

NOTES FOR USERS IN THE U.K. AND IRELAND

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 3A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked ♡ or ⊛ and of the same rating as above, which is also indicated on the pin face of the plug must be used.

Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.

In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut-off the mains plug and fit an appropriate type.

DANGER:
The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.

Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet as a serious electric shock may occur.
To fit an appropriate plug to the mains lead, follow the instructions below:

IMPORTANT:
The wires in the mains lead are coloured in accordance with the following code:
Blue : Neutral
Brown : Live

As the colours of the wires in the mains lead of this product may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The wire which is coloured blue must be connected to the plug terminal which is marked N or coloured black.
- The wire which is coloured brown must be connected to the plug terminal which is marked L or coloured red.

Ensure that neither the brown nor the blue wire is connected to the earth terminal in your three pin plug.

Before replacing the plug cover, make sure that:

- If the new fitted plug contains a fuse, its value is the same as that removed from the cut-off plug.
- The cord grip is clamped over the sheath of the mains lead and not simply over the lead wires.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

SERVICE INFORMATION
In the unlikely event of your equipment requiring repair, please contact the dealer or supplier from whom it was purchased. Where this is not possible, please visit our web-site www.sharp.co.uk/customersupport.
Customers without internet access may telephone 0845 880 0512 during office hours (or (01) 676 0648 if telephoning from Ireland).
Please note; all calls will be charged at local rate.

Certain replacement parts and accessories may be obtained from our main parts distributor.

WILLOW VALE ELECTRONICS LTD.
0121 766 5414

In the unlikely event of this equipment requiring repair during the guarantee period, you will need to provide proof of the date of purchase to the repairing company.
Please keep your invoice or receipt, which is supplied at the time of purchase.

WARNINGS

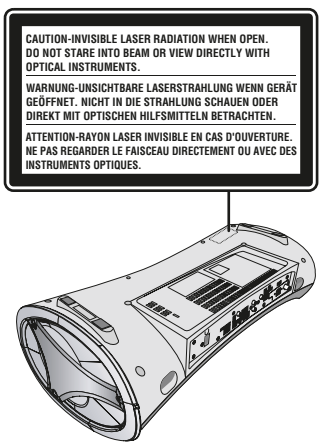
- When the ON/STAND-BY button is set at STAND-BY position, mains voltage is still present inside the unit. When the ON/STAND-BY button is set at STAND-BY position, the unit may be brought into operation by the timer mode or remote control.
- This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.
- To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.
- Do not turn the volume on to full at switch on and listen to music at moderate levels. Excessive sound pressure from earphones and headphones can cause hearing loss.

CAUTION

- This product is classified as a CLASS 1 LASER product.
- Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

Laser Diode Properties
Material: GaAs + GaAlAs
Wavelength: 780 nm
Emission Duration: continuous
Laser Output: max. 0.4 mW


CAUTION-INVISIBLE LASER RADIATION WHEN OPEN.
DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
WARNUNG-UNSICHTBARE LASERSTRAHLUNG WENN GERÄT GEÖFFNET. NICHT IN DIE STRAHLUNG SCHAUEN ODER DIREKT MIT OPTISCHEN HILFSMITTELN BETRACHTEN.
ATTENTION-RAYON LASER INVISIBLE EN CAS D'OUVERTURE. NE PAS REGARDER LE FAISCEAU DIRECTEMENT OU AVEC DES INSTRUMENTS OPTIQUES.

Information on Proper Disposal

Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

A. Information on Disposal for Users (private households)

1. In the European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin!

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.
Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one.
*) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of www.swico.ch or www.sens.ch.

B. Information on Disposal for Business Users

1. In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your SHARP dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

For Spain: Please contact the established collection system or your local authority for take-back of your used products.

2. In other Countries outside the EU

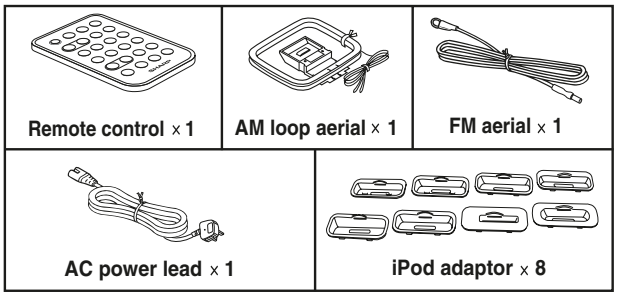
If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

Special Note

Supply of this product does not convey a license nor imply any right to distribute content created with this product in revenue-generating broadcast systems (terrestrial, satellite, cable and/or other distribution channels), revenue-generating streaming applications (via Internet, intranets and/or other networks), other revenue-generating content distribution systems (pay-audio or audio-on-demand applications and the like) or on revenue-generating physical media (compact discs, digital versatile discs, semiconductor chips, hard drives, memory cards and the like). An independent license for such use is required. For details, please visit http://mp3licensing.com
MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

Accessories

Please confirm that the following accessories is included.



Note: Only the above accessories are included.

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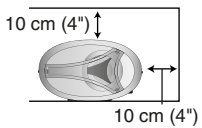
TERMS OF GUARANTEE . . . . . Back Cover

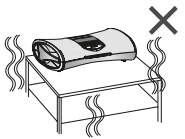
Precautions

■ General

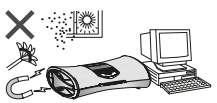
- Please ensure that the equipment is positioned in a well-ventilated area and ensure that there is at least 10 cm (4") of free space along the sides, top and back of the equipment.



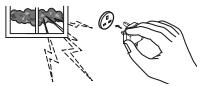
- Use the unit on a firm, level surface free from vibration.



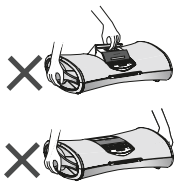
- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generate electrical noise.



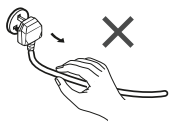
- Do not place anything on top of the unit.
- Do not expose the unit to moisture, to temperatures higher than 60˚C (140˚F) or to extremely low temperatures.
- If your system does not work properly, disconnect the AC power lead from the wall socket. Plug the AC power lead back in, and then turn on your system.
- In case of an electrical storm, unplug the unit for safety.



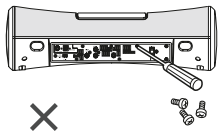
- Do not lift the unit by holding left or right side panel and the iPod dock door, it may cause the unit damage or broken.



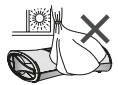
- Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.
- The AC power plug is used as disconnect device and shall always remain readily operable.



- **Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.**



- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.



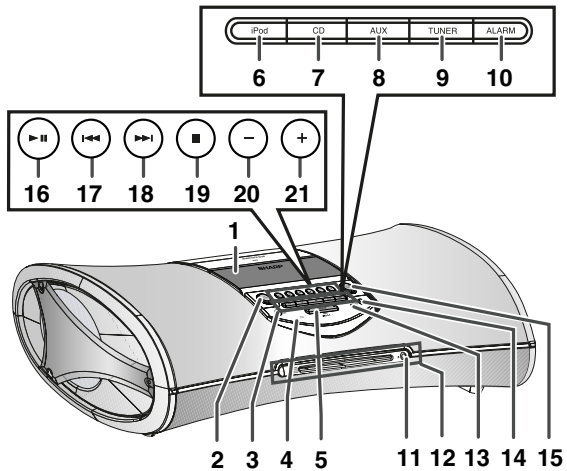
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- This unit should only be used within the range of 5˚C - 35˚C (41˚F - 95˚F).
- The apparatus is designed for use in moderate climate.

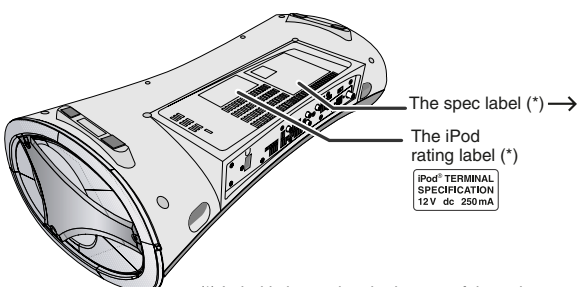
Warning:
The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

■ Volume control

The sound level at a given volume setting depends on speaker efficiency, location, and various other factors. It is advisable to avoid exposure to high volume levels. Do not turn the volume on to full at switch on and listen to music at moderate levels. Excessive sound pressure from earphones and headphones can cause hearing loss.

Controls and indicators





(*) Label is located at the bottom of the unit.

■ Top panel

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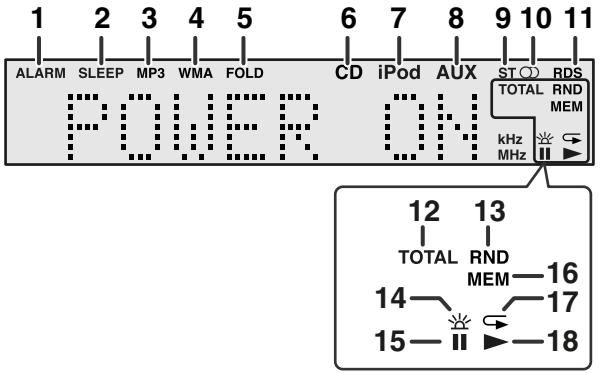
1. iPod Dock	15
2. ON/STAND-BY Button	12, 13, 17, 23
3. Clock Button	13
4. Remote Sensor	11
5. Snooze/Dimmer Button	12, 30
6. iPod Button	14
7. CD Button	17
8. Auxiliary Button	32
9. Tuner Button	23
10. Alarm Button	30
11. CD Eject Button	18
12. Disc Slot	18
13. Alarm Indicator	30
14. Alarm ON/OFF Button	30
15. E Sound/Demo Button	10, 12
16. Play/Pause Button	16, 18
17. Skip Down, Tuner Preset Down Button	13, 16, 18, 24
18. Skip Up, Tuner Preset Up Button	13, 16, 18, 24
19. Disc Stop Button	18
20. Volume Down Button	12
21. Volume Up Button	12

SHARP MODEL NO. DK-A10H
MUSIC SYSTEM
220 – 240V ∿ 50Hz 34W
FREQUENCY RANGE : FM 87.5 – 108 MHz
AM 522 – 1,620 MHz
SERIAL NO.
SHARP CORPORATION MADE IN MALAYSIA

WARNING :
THIS UNIT CONTAINS NO USER SERVICEABLE PARTS. NEVER REMOVE COVERS UNLESS QUALIFIED TO DO SO. THIS UNIT CONTAINS DANGEROUS VOLTAGES, ALWAYS REMOVE MAINS PLUG FROM THE SOCKET BEFORE ANY SERVICE OPERATION AND WHEN NOT IN USE FOR A LONG PERIOD.



■ Display

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3. MP3 Indicator	18
4. WMA Indicator	18
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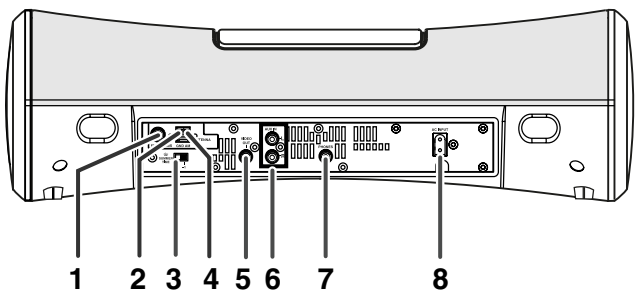
16. Memory Indicator	20
17. Repeat Play Indicator	19
18. Play Indicator	18



■ Rear panel

	Reference page
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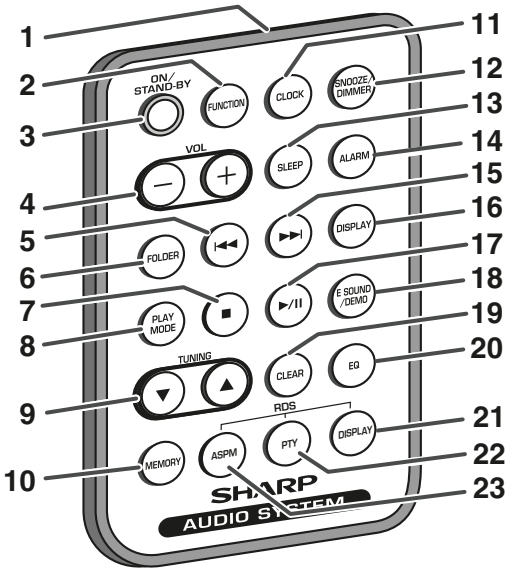
2. AM Aerial Earth Terminal	9
3. Summer Time Switch	13
4. AM Loop Aerial Terminal	9
5. Video Out Socket	10
6. Auxiliary Input Sockets	32
7. Headphone Socket	32
8. AC Input	10

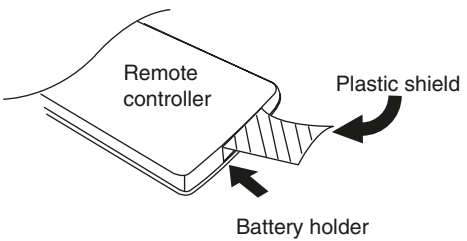
Controls and indicators (continued)



■ Remote control

	Reference page
1. Remote Control Transmitter	11
2. Function Button	12
3. On/Stand-by Button	12, 13, 17, 23
4. Volume Up and Down Buttons	12
5. Skip Down, Tuner Preset Down Button	13, 16, 18, 24
6. Folder Button	21
7. Disc Stop Button	18
8. Play Mode Button	16, 19
9. Tuning Up and Down Buttons	23
10. Memory Button	20, 24
11. Clock Button	13
12. Snooze/Dimmer Button	12, 30
13. Sleep Button	31
14. Alarm Button	30
15. Skip Up, Tuner Preset Up Button	13, 16, 18, 24
16. Display Button	16
17. Play/Pause Button	16, 18
18. E Sound/Demo Button	10, 12
19. Clear Button	20
20. EQ Button	12
21. RDS Display Button	25
22. RDS PTY Button	25
23. RDS ASPM Button	25

Note:
Before using remote control, please remove plastic shield at battery holder.

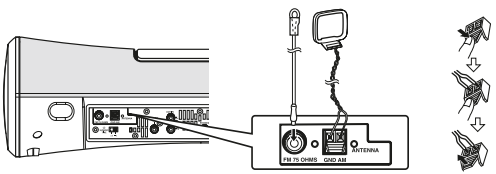


System connections

Make sure to unplug the AC power lead before any connections.

■ Aerial connection

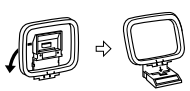
Supplied FM aerial:
Connect the FM aerial wire to the FM 75 OHMS socket and position the FM aerial wire in the direction where the strongest signal can be received.
Supplied AM loop aerial:
Connect the AM loop aerial to the AM and GND terminals. Position the AM loop aerial for optimum reception. Place the AM loop aerial on a shelf, etc., or attach it to a stand or a wall with screws (not supplied).



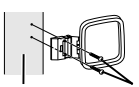
Note:
Placing the aerial on the unit or near the AC power lead may cause noise pickup. Place the aerial away from the unit for better reception.

Installing the AM loop aerial:

< Assembling >



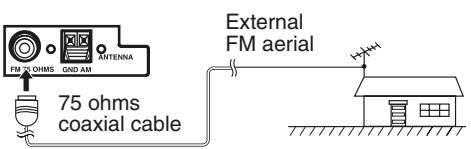
< Attaching to the wall >



Wall Screws (not supplied)

■ External FM aerial

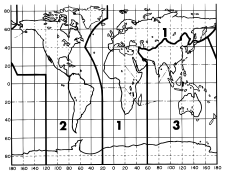
Use an external FM aerial if you require better reception.
Consult your dealer.



Note:
When an external FM aerial is used, disconnect the supplied FM aerial wire.

■ Setting the FM/AM interval

The International Telecommunication Union (ITU) has established that member countries should maintain either a 10 kHz or 9 kHz interval between broadcasting frequencies of AM stations and 100 kHz or 50 kHz for FM stations. The illustration shows the 50/9 kHz zones (regions 1 and 3), and the 100/10 kHz zone (region 2).



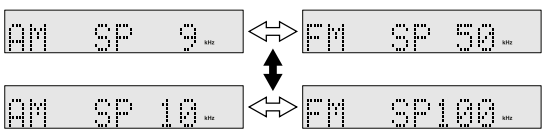
This product is not equipped with a span selector. However, it will be adjusted to a 9 kHz AM (50 kHz FM) interval when shipped from the factory.

Before using the unit, be sure to set it to the AM/FM tuning interval (span) used in your area.

To change the AM/FM tuning interval (main unit only):

1 During demonstration mode, press the E SOUND/DEMO button to enter the stand-by mode.
2 Whilst holding down the SNOOZE/DIMMER button, press the ON/STAND-BY button.

3 Within 6 seconds, press the I◄◄ or ►►I button to select the interval (span) in your area.
The display switches each time you press the I◄◄ or ►►I button.



4 Within 6 seconds, press the ►II button.
● The unit will enter the power stand-by mode automatically.

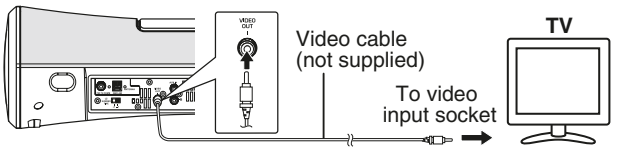
Note:
The AM/FM tuning interval will not change unless you press the ►II button within 6 seconds.

Caution:
- When the unit is left for a few days after the span has been changed and the AC power lead disconnected, the AM span will be automatically returned to 9 kHz (FM span to 50 kHz). If this happens, set the span again.
- When the span is changed, all the memorised stations will be cancelled.
- This operation can not operate when alarm is activated.
Deactivate the alarm first. (refer page 30)

System connections (continued)

■ Connecting iPod to TV

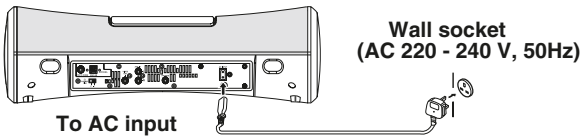
iPod photo and 5th Generation iPod with photo and video can be view by connecting to TV/monitor.
If the TV/monitor has a video input, connect it to the VIDEO OUT socket on the rear of the unit.



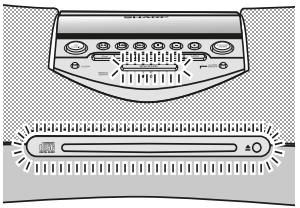
Note:
Please make sure to set iPod unit to either NTSC or PAL to match the TV signal. Please visit Apple's home page for further information.

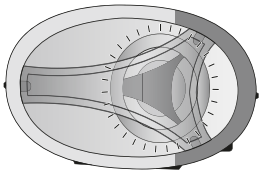
■ AC power connection

After checking all the connections have been made correctly, plug the AC power lead of this unit into the wall socket. If you plug in the unit first, the unit will enter the demonstration mode.



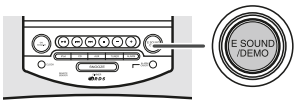
Note:
- Unplug the AC power lead from the wall socket if the unit will not be in use for a prolonged period of time.



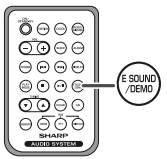


■ Demonstration mode

The first time the unit is plugged in, the unit will enter the demonstration mode. Lights on the snooze button, subwoofer and around the disc slot will blink.



To cancel the demonstration mode:
When the unit is in the demonstration mode, press the E SOUND/DEMO button. The unit will enter the power stand-by mode (low power consumption mode).



To return to the demonstration mode:
When the unit is in the power stand-by mode, press the E SOUND/DEMO button again.

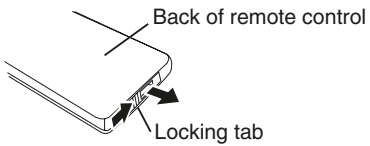
Note:
When the power is on, the E SOUND/DEMO button can be used to select the E SOUND mode.

Remote control

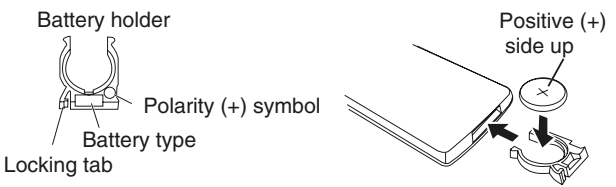
■ Battery installation

This product contains a CR Coin Lithium Battery which contains Perchlorate Material – special handling may apply, California residents, see www.dtsc.ca.gov/hazardouswaste/perchlorate/

1 Whilst pushing the locking tab towards the centre of the remote control, slide out the battery holder.



2 Remove the old battery from the battery holder, insert the new battery and then slide the battery holder back into the remote control.



Precautions for battery use:

- Remove the battery if the unit will not be used for long periods of time. This will prevent potential damage due to battery leakage.

Caution:

- Do not use rechargeable battery (nickel-cadmium battery, etc.).
- Replace only with the same or equivalent type.
- Installing the battery incorrectly may cause the unit to malfunction.
- Danger of explosion if battery is incorrectly replaced.
- Batteries (battery pack or battery installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

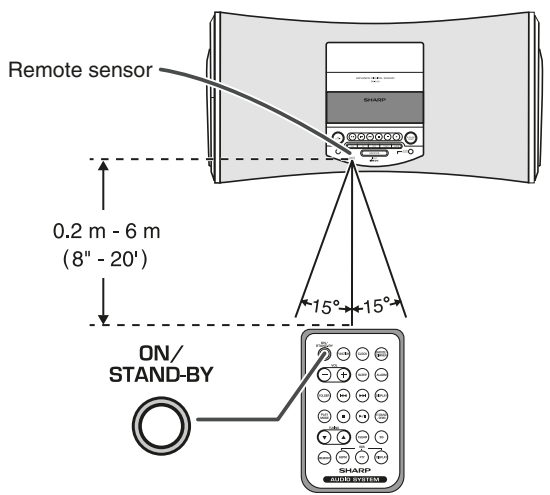
Notes concerning use:

- Replace the battery if the operating distance is reduced or if the operation becomes erratic. Purchase “CR 2025”, coin lithium battery.
- Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
- Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit if this occurs.
- Keep the remote control away from moisture, heat, shock, and vibrations.

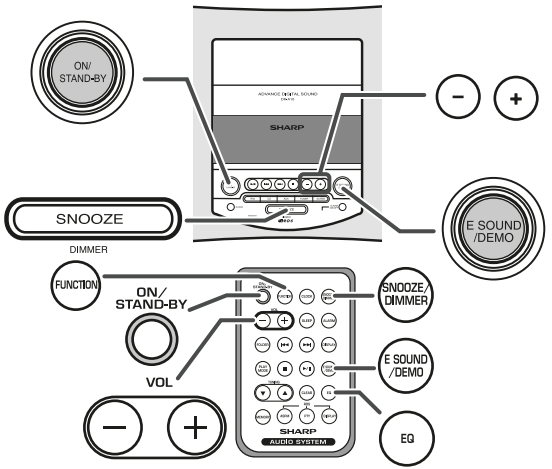
■ Test of the remote control

Check the remote control after checking all the connections (see page 9 - 10).
Point the remote control directly at the remote sensor on the unit.

The remote control can be used within the range shown below:
Press the ON/STAND-BY button. Does the power turn on? Now, you can enjoy music.



General control



■ To turn the power on

Press the ON/STAND-BY button to turn the power on. Lights on the snooze button, Subwoofer and around the disc slot will light up.

Note:

iPod dock door will automatically open when the power is on.

After use:
Press the ON/STAND-BY button to enter the power stand-by mode or demonstration mode.

■ Illumination light control

Press the SNOOZE/DIMMER button to adjust the brightness of the display and illumination light.

Illumination light and display bright
↓
Illumination light and display dim
↓
Illumination light off and display gets dimmer

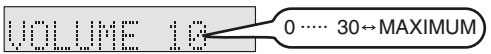
■ Volume auto fade-in

If you turn off and on the main unit with the volume set to 27 or higher, the volume starts at 16 and fades in to the last set level.

■ Volume control

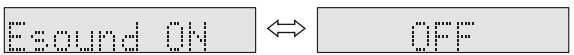
Main unit and remote control operation:

Press the VOL (+ or –) button to increase or decrease the volume.



■ E SOUND control

When the E SOUND/DEMO button is pressed, the current mode setting will be displayed. To change the setting, press the E SOUND/DEMO button repeatedly to toggle ON or OFF. When ON is selected, the unit will enter the E SOUND mode and adjust low bass and high frequency automatically according to volume input.



■ Equaliser

When the EQ button is pressed, the current mode setting will be displayed. To change to a different mode, press the EQ button repeatedly until the desired sound mode appears.

FLAT	No equalisation.
ROCK	For rock music.
CLASSICS	For classical music.
POPS	For pop music.
VOCAL	Vocals are enhanced.
JAZZ	For jazz.

■ Function

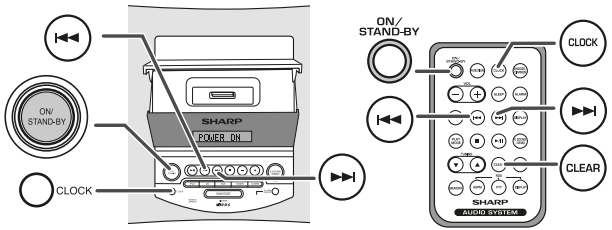
When the FUNCTION button on remote control is pressed, the current function will change to different mode, press the FUNCTION button repeatedly to select desired function.

iPod → Tuner FM ST → Tuner FM mono
↓
CD ← AUX ← AM ←

Note:

The backup function will protect the memorised function mode for a few days should there be a power failure or the AC power lead becomes disconnected.

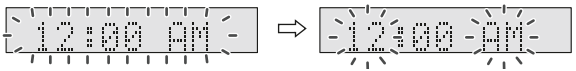
Setting the clock



In this example, the clock is set for the 12-hour (12:00 AM) display.

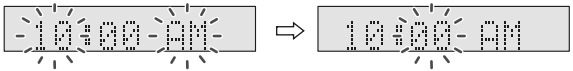
1 Press the CLOCK button for more than 2 seconds.

2 Press the ⏮ or ⏭ button to select 12-hour or 24-hour display and then press the CLOCK button.



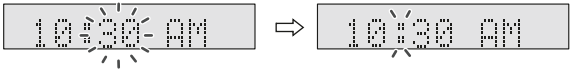
→"12:00 AM" → The 12-hour display will appear. (12:00 AM - 11:59 PM)
↓
"0:00 AM" → The 12-hour display will appear. (0:00 AM - 11:59 PM)
↓
"0:00" → The 24-hour display will appear. (0:00 - 23:59)

3 Press the ⏮ or ⏭ button to adjust the hour and then press the CLOCK button.



Press the ⏮ or ⏭ button once to advance the time by 1 hour. Hold it down to advance continuously.

4 Press the ⏮ or ⏭ button to adjust the minutes and then press the CLOCK button.



Press the ⏮ or ⏭ button once to advance the time by 1 minute. Hold it down to change the time in 5-minutes interval.

To confirm the time display:
[When the unit is in the stand-by mode or demonstration mode.]
Press the CLOCK button to enter the clock function.

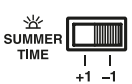
[When the power is on]
Press DISPLAY button on the remote control to toggle between the function information and clock display.

Notes:
- The clock will continue counting for 8 hours should there be a power failure or the AC power lead becomes disconnected.
- The "CLOCK ADJ" will appear or time will flash to confirm the time display when the AC power supply is restored after a power failure or unplugging the unit after 8 hours. If incorrect, readjust the clock as follows.

To readjust the clock:
Perform "Setting the clock" from step 1 to step 4.

To change the 12-hour or 24-hour display:
1 Clear all the programmed contents. [Refer to "Clearing all the memory (reset)" on page 34 for details.]
2 Perform "Setting the clock" from step 1.

Summer time:
The Summer Time switch is located on the rear of the unit.
1 Slide the Summer Time switch to +1 to advance the time 1 hour. ☼ indicator will appear.
2 Slide the Summer Time switch to -1 to turn the clock back 1 hour.



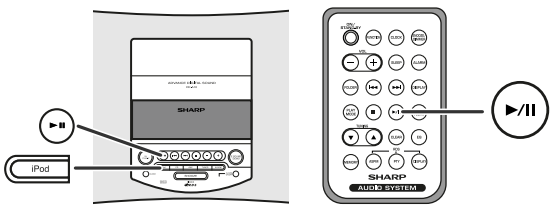
Listening to the iPod

Supported iPod:
- iPod nano (software 1.0 above)
- iPod photo (software 1.0 above)
- iPod mini (software 1.2 above)
- 5th Generation iPod (software 1.0 above) (Dock connector equipped Click Wheel model)
- 4th Generation iPod (software 3.0.2 above) (Dock connector equipped Click Wheel model)
- 3rd Generation iPod (software 2.2 above) (Dock connector equipped Click Wheel model)

Caution:
- Please update your iPod unit to the latest software version before using it. Please visit Apple's homepage to download the latest version for your iPod.

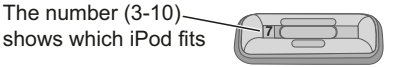
Notes:
- Once the iPod is connected to the unit it will begin charging.
- The iPod unit cannot be charged whilst the main unit is in the stand-by mode.

Auto power on function:
When you press any of the following buttons, the unit turns on.
- iPod button (main unit): The unit turns on and the iPod function is activated.
- ►/II button (main unit and remote control): The unit turns on and playback of the last function will start (iPod, CD, TUNER, AUX).



■ iPod adaptor connection

Choose the iPod adaptor that fits your iPod. Your iPod will fit snuggly into the correct adaptor. If your iPod is not mentioned below, an iPod adaptor may have been included with your iPod unit.

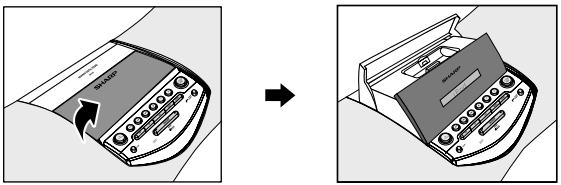


iPod Adapter No.	iPod Description	Capacity
3	iPod mini	4GB & 6GB
4	4G iPod & U2 iPod	20GB
5	4G iPod	40GB
6	iPod photo & Color U2 iPod	20GB & 30GB
7	iPod photo	40GB & 60GB
6	iPod with colour display	20GB
7	iPod with colour display	60GB
8	iPod nano	2GB & 4GB
9	iPod (10/12/05 w/video)	30GB
10	iPod (10/12/05 w/video)	60GB

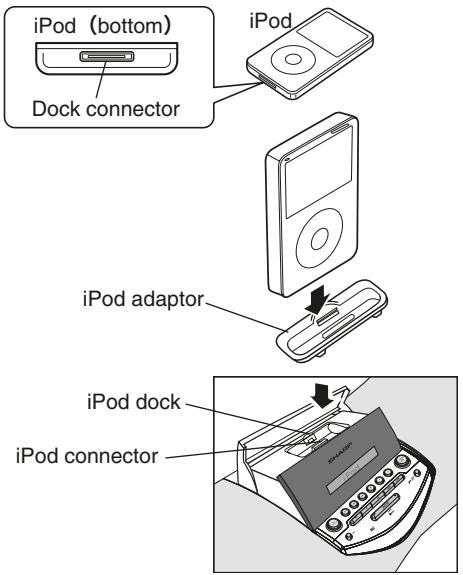
Notes:
- iPod nano (Second Generation) is not compatible with the original iPod nano dock adaptor.
- If you have an iPod that does not have an iPod connector, you can use an audio cable to connect it to the AUX IN sockets.

■ To insert iPod adaptor

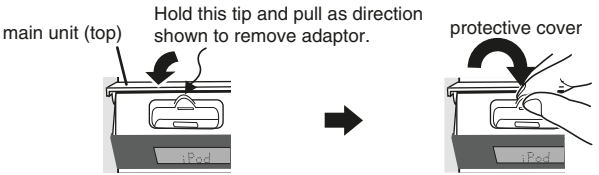
1. Press the ON/STAND-BY button to turn the power on. The iPod terminal door will automatically open when the display is on.



2. Insert the iPod adaptor into the unit and connect your iPod.



■ To remove iPod adaptor



■ iPod playback

1 **Press the ON/STAND-BY button to turn the power on. The iPod terminal door will automatically open when the display is on.**

2 **Press the iPod button on the main unit once or FUNCTION button on remote control repeatedly to select iPod function.**

3 **Insert iPod unit in iPod dock of main unit.**

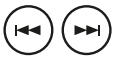
4 **Press the ► / II button to start playback.**

■ To disconnect iPod

Simply remove the iPod from the iPod dock. It is safe to do so even during playback.

Listening to the iPod (continued)

■ Various iPod functions

Function	Main unit	Remote control	Operation
Play			Press in the pause mode.
Pause			Press in the playback mode.
Track up/ down			Press in the playback or pause mode. If you press the button in the pause mode, press the ► / II button to start the desired track.
Fast forward/ reverse			Press and hold down in the playback mode. Release the button to resume playback.
Display	____		iPod back light on.
Repeat	____		Press to toggle repeat mode.
Shuffle	____		Press and hold down to toggle shuffle mode.

iPod operation
The operations described below depend on the generation of iPod you are using.

iPod dock door operation
- Open
  When the main unit is powered on.
- Close
  - When turning the main unit to standby mode without iPod unit docked.
  - When cancelling the demonstration mode without iPod unit docked.

Notes:
1 The iPod dock door remains open when turning the main unit to demonstration mode or standby mode with iPod unit docked.
2 The iPod dock door remains close when turning to demonstration mode from standby mode.

System on operation
When the main unit is powered on, the iPod unit will automatically power on when docked in the unit (including alarm function).
* Invalid for 3rd iPod Generation.

System off (stand-by operation)
When the main unit is turned to stand-by mode, the docked iPod unit will automatically turn to stand-by mode and iPod dock door will remain open.

iPod playback detection function
Once play button on iPod unit is pressed, the unit will automatically change to iPod function overriding the previous function selected.

Caution:
- Unplug all accessories for the iPod before inserting it into the iPod dock.
- Stop button (■) is invalid during iPod function.

Listening to a CD or MP3/WMA disc

This system can play back a standard CD, CD-R/RW in the CD format and CD-R/RW with MP3 or WMA files, but cannot record on them. Some audio CD-R and CD-RW discs may not be playable due to the state of the disc or the device that was used for recording.

MP3:
MP3 is a form of compression. It is an acronym which stands for MPEG Audio Layer 3.
MP3 is a type of audio code which is processed by significant compression from the original audio source with very little loss in sound quality.

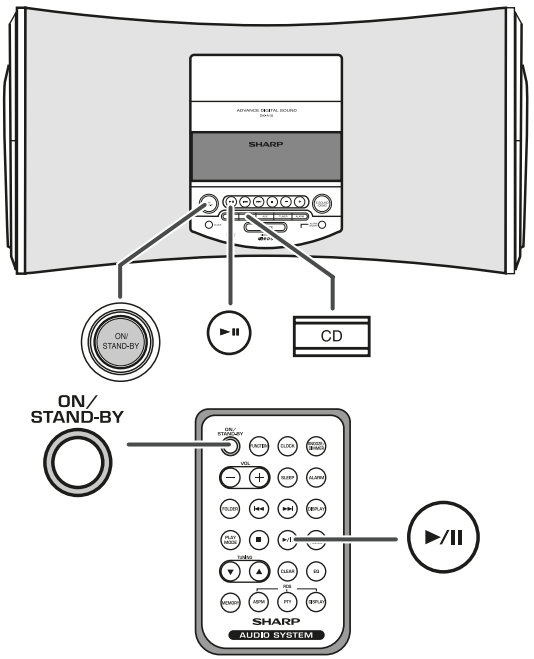
- This system supports MPEG 1 Layer 3, MPEG 2 Layer 3, and VBR files.
- During VBR file playback, time counter in the display may differ from its actual playback time.
- Bitrate which is supported by MP3 is 32 ~ 320 kbps.

WMA:
WMA files are Advanced System Format files that include audio files which are compressed with Windows Media Audio codec. WMA is developed by Microsoft as an audio format file for Windows Media Player.

- "MP3" and "WMA" indicator will light up after the unit reads information on an MP3 or WMA disc.
- Bitrate which is supported by WMA is 64 ~ 160 kbps.

Auto power on function:
When you press any of the following buttons, the unit turns on.

- CD button (main unit): The unit turns on and the CD function is activated.
- ► / II button (main unit and remote control): The unit turns on and play back of the last function starts (iPod, CD, TUNER, AUX).

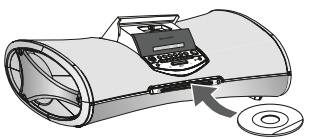


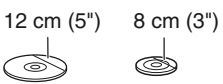
Listening to a CD or MP3/WMA disc (continued)

1 Press the ON/STAND-BY button to turn the power on.

2 Press the CD button.

3 Insert the disc into the disc slot, label side up.





- 8 cm disc can be inserted without an adaptor.
- Due to the structure of the disc information, it takes longer to read an MP3/WMA disc than a normal CD (approximately 20 to 90 seconds).

[CD]

Total number of tracks on the disc — Total playing time of the disc

[MP3/WMA]

Total number of files — Disc Name

4 Press the ► / II button to start playback.

Disc play indicator

- Playback will begin from track 1.
- After the last track on the disc is played, the unit will stop automatically.

To remove the disc:
In the stop mode, press the ▲ button.

Caution:
- Do not play discs of special shapes (heart, octagon, etc). It may cause malfunctions.
- Do not push the disc whilst it is moving.
- If the power fails whilst the disc is moving, wait until the power is restored.
- If TV or radio interference occurs during CD operation, move the unit away from the TV or radio.

■ Various disc functions

Function	Main unit	Remote control	Operation
Play	►II	►/II	Press in the stop mode.
Stop	■	■	Press in the playback mode.
Pause	►II	►/II	Press in the playback mode. Press the ►/II button to resume playback from the paused point.
Track up/ Track down	⏮ ⏭	⏮ ⏭	Press in the playback or stop mode. If you press the button in the stop mode, press the ►/II button to start the desired track. Press and hold down in stop mode, the track will skip up/down rapidly as figure below. Example: Current track no.65 Down: 65 –> 64 –> 63 –> 62 –> 61 –> 60 –> 50 –> 40 Up: 65 –> 66 –> 67 –> 68 –> 69 –> 70 –> 80 –> 90 Note: This operation is invalid if total track is less than 20.
Fast forward/ Fast reverse	⏮ ⏭	⏮ ⏭	Press and hold down in the playback mode. Release the button to resume playback.

Notes for CD or MP3/WMA disc:
- When the end of the last track is reached during fast forward, "END" will appear on the display and CD operation will be paused. When the beginning of the first track is reached during fast reverse, the unit will enter the playback mode.
- Rewritable multi session discs with unfinished writing, can still be played.

Advanced CD or MP3/WMA disc playback

■ Repeat play

Repeat play can play all tracks on a disc, folder or a programmed sequence continuously.

To repeat play:

Press the PLAY MODE button on the remote control.

Press the ► / ❚❚ button.

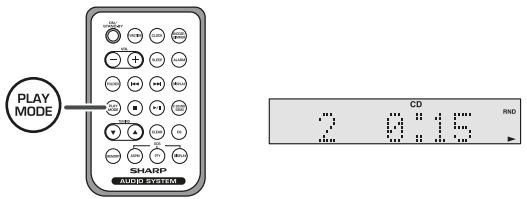
To cancel repeat play:
Press the PLAY MODE button again.
"⊆" will disappear.

■ Random play

The tracks on the disc can be played in random order automatically.

To random play:

Press and hold down the PLAY MODE button on the remote control.
Press ► / ❚❚ button.



To cancel random play:
Press and hold down the PLAY MODE button.
"RND" will disappear.

Notes:

- If you press the ►►I button during random play, you can move to the track selected next by the random operation. However, the I◄◄ button does not allow you to move to the previous track. It will go to the beginning of the current track instead.
- In random play, the CD player will select and play tracks automatically. (You cannot select the order of the tracks.)
- Random and repeat play can be use on the same time.

Caution:
After performing repeat play, be sure to press the ■ button. Otherwise, the disc will play continuously.

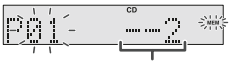
Advanced CD or MP3/WMA disc playback (continued)

■ Programmed play

You can choose up to 32 selections for playback in the order you like.

1 **Whilst in the stop mode, press the MEMORY button to enter the programming save mode.**

2 **Press the ⏮ or ⏭ button to select the desired track.**



Selected track number

3 **Press the MEMORY button to save the track number.**

4 **Repeat steps 2 - 4 for other tracks. Up to 32 tracks can be programmed.**

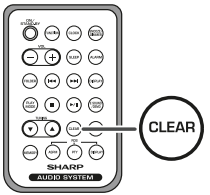
If you make a mistake, the programmed tracks can be cleared by pressing the CLEAR button.

5 **Press the ■ button.**

The total number in memory will appear.

6 **Press the ► / ⏸ button to start playback.**

To clear the programmed selections:
Press the CLEAR button on the remote control whilst the “MEM” indicator is flashing. Each time the button is pressed, one track will be cleared, beginning with the last track programmed.



To cancel the programmed play mode:
Whilst in the stop mode and the “MEM” indicator is lit, press the CLEAR button on the remote control. The “MEM” indicator will disappear and all the programmed contents will be cleared.

Adding tracks to the programme:
If a programme has been previously stored, the “MEM” indicator will be displayed. Then follow steps 1 - 6 to add tracks. The new tracks will be stored after the last track of the original programme.

To check which tracks are programmed:
Whilst the unit is stopped in the programmed play mode, press the ⏮ or ⏭ button.

Notes:

- When a disc with programmed tracks is ejected, the programme is automatically cancelled.
- Even if you press the ON/STAND-BY button to enter the stand-by mode or change the function from CD to another, the programmed selections will not be cleared.
- During the programme operation, random play is not possible.

MP3/WMA folder mode (only for MP3/WMA files)

To playback MP3/WMA (Windows Media Audio) file

There are many music sites on the internet that you can download MP3/WMA (Windows Media Audio) music files from, follow the instructions from the website on how to download the music files.
You can then playback these downloaded music files by burning them to a CD-R/RW disc.

- Your downloaded song/files are for personal use only. Any other usage of the song without owner's permission, is against the law.

■ About folder playback order

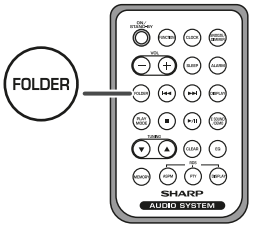
If MP3/WMA files are recorded in several folders, a folder number will be set to each folder automatically.

These folders can be selected by the FOLDER button on the remote control. If there is no supported file formats inside the selected folder, the folder is skipped and the next folder will be selected.

Example: How to set folder number if MP3/WMA format files are recorded as below figure.

1. ROOT folder is set as folder 1.
2. As for folders inside ROOT folder (Folder A and Folder B), the folder which is recorded earlier on the disc will be set as folder 2.
3. As for folder inside Folder A (Folder C and Folder D), the folder which is recorded earlier on the disc will be set as folder 3.
4. Because there is no folder in Folder C, Folder D will be set as folder 4.
5. Folder E which is inside Folder D will be set as folder 5.
6. Folder B inside the ROOT folder will be set as folder 6.

* The folder and file order information which is recorded on the disc depends on the writing software. There may be possibilities that this unit will play back the files not according to your expected playback order.



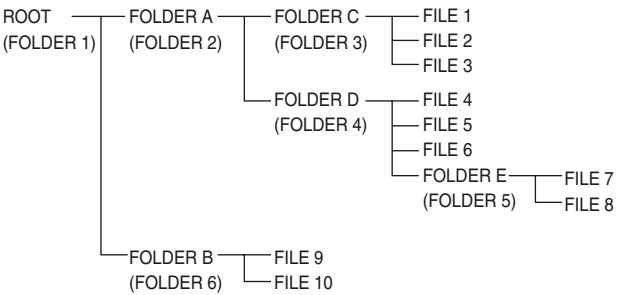
Folder mode on/off can be operated by the FOLDER button on the remote control. Files that are played when folder mode is set to the on position, may differ from those played back when folder mode is turned off.

Folder Mode Off case:

All the files starting from the selected folder or file will be played back.
If file 3 inside Folder C is selected, all the files starting from file 3 will be played back.

Folder Mode On case:

All the files inside the selected folder will be played back.
In case Folder D is selected, file 4, 5 and 6 will be played back. File 7 and 8 in Folder E will not be played back.



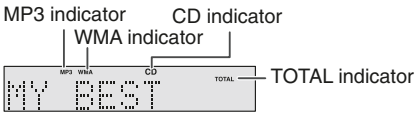
MP3/WMA folder mode (only for MP3/WMA files) (continued)

■ Procedure to play back MP3/WMA disc

To play back CD-R/RW.

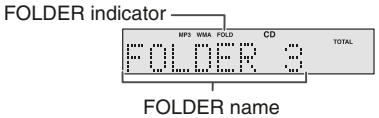
1 Press the CD button, and insert an MP3/WMA disc.

- After disc is inserted and TOC reading, disc info will be displayed.



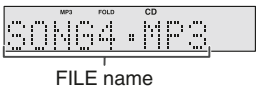
- In case folder is selected, proceed to step 2.
- In case file is selected, proceed to step 4.

2 Press the FOLDER button, and press the TUNING (∨ or ∧) button to select desired playback folder. (Folder mode on)

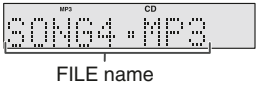


- To start playback with folder mode on, go to step 5.
- To change the playback folder, press the TUNING (∨ or ∧) to select another folder.

3 Select desired file to be played back by pressing the ⏮ ◀◀ or ▶▶ ⏭ button. Proceed to step 5.

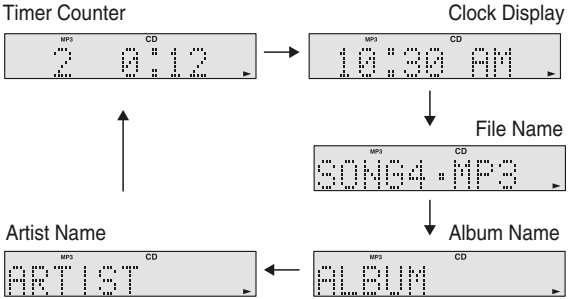


4 Select desired file to be played back by pressing the ⏮ ◀◀ or ▶▶ ⏭ button. (Folder mode off)



5 Press the ► / ⏸ button.
Playback will start and file name will be displayed.

- Title, Artist & Album name are displayed if they are recorded on the disc.
- Display content can be changed by pressing the DISPLAY button.

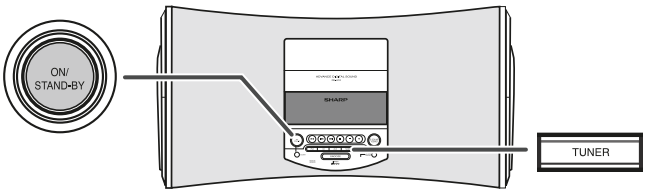


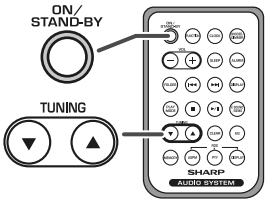
In case of playback with the folder mode on, press the TUNING (∨ or ∧) button, and the folder can be selected even though it is in playback/pause mode.
It will continue playback/pause mode in the 1st track of the selected folder.

Note:

- If “NOSUPPORT” is displayed, it means “Copyright protected WMA file” or “Not supported playback file” is selected.

Listening to the radio





Auto power on function:
When you press any of the following buttons, the unit turns on.
- TUNER button (main unit): The unit turns on and the TUNER function is activated.
- ►/II button (main unit and remote control): The unit turns on and playback of the last function starts (iPod, CD, TUNER, AUX).

■ Tuning

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the TUNER button on main unit or FUNCTION button on remote control repeatedly to select the desired frequency band (FM or AM).**

3 **Press the TUNING (▼ or ▲) button on the remote control to tune in to the desired station.**

Manual tuning:

Press the TUNING (▼ or ▲) button as many times as required to tune in to the desired station.

Auto tuning:

When the TUNING (▼ or ▲) button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

Notes:
- When radio interference occurs, auto scan tuning may stop automatically at that point.
- Auto scan tuning will skip weak signal stations.
- To stop the auto tuning, press the TUNING (▼ or ▲) button again.

To receive an FM stereo transmission:
Press the TUNER button (main unit) or FUNCTION button (remote control) to select stereo mode and "ST" indicator will be displayed.
- "∞" will appear when an FM broadcast is in stereo.
- If the FM reception is weak, press the TUNER button (main unit) or FUNCTION button (remote control) to extinguish the "ST" indicator. The reception changes to monaural, and the sound becomes clearer.

FM stereo mode indicator

FM stereo receiving indicator

Listening to the radio (continued)

■ Memorising a station

You can store 40 AM and FM stations in memory and recall them at the push of a button. (Preset tuning)

1 **Perform steps 1 - 3 in "Tuning" on page 23.**

2 **Press the MEMORY button to enter the preset tuning saving mode.**

3 **Within 1 minute, press the ⏮ or ⏭ button to select the preset channel number.**

Store the stations in memory, in order, starting with preset channel 1.

4 **Within 1 minute, press the MEMORY button to store that station in memory.**

If the preset number indicators disappear before the station is memorised, repeat the operation from step 2.

5 **Repeat steps 1 - 4 to set other stations, or to change a preset station.**

When a new station is stored in memory, the station previously memorised for that preset channel number will be erased.

Note:
The backup function protects the memorised stations for a few hours should there be a power failure or the AC power lead becomes disconnected.

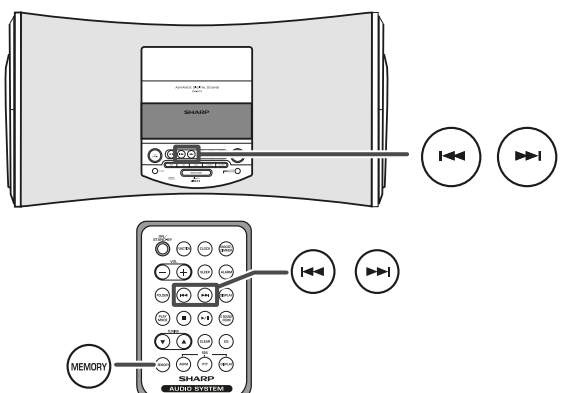
■ To recall a memorised station

Press the ⏮ or ⏭ button for less than 0.5 seconds to select the desired station.

■ To scan the preset stations

The stations saved in memory can be scanned automatically. (Preset memory scan)

1 Press the ⏮ or ⏭ button for more than 0.5 seconds.
The preset number will flash and the programmed stations will be tuned in sequentially, for 5 seconds each.
2 Press the ⏮ or ⏭ button again when the desired station is located.



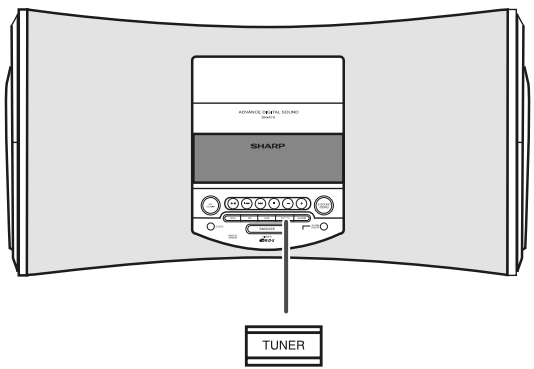
■ To erase entire preset memory

1 Press and hold the CLEAR button for more than 3 seconds.
"TUN CLEAR" will be displayed.
2 Within 10 seconds, press the MEMORY button.
"COMPLETE" will be displayed.

Using the Radio Data System (RDS)

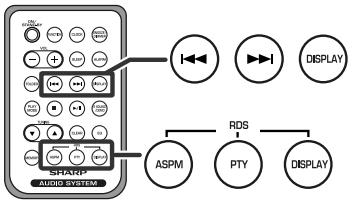
RDS is a broadcasting service which a growing number of FM stations provide. These FM stations send additional signals along with their regular programme signals. They send their station names, and information about the type of programme such as sport, music, etc.
When tuned to an RDS station, “RDS” and the station name will be displayed.

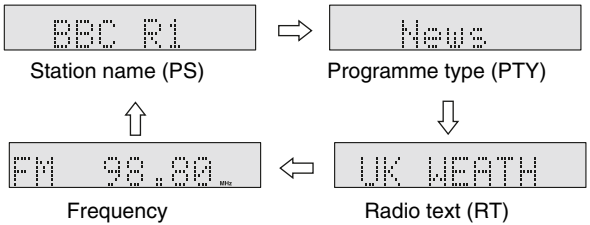
You can control the RDS by using the buttons on the remote control only.



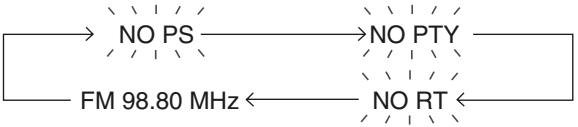
■ Information provided by RDS

Each time the RDS DISPLAY button is pressed, the display will switch as follows:





When tuning in to a station other than an RDS station or to an RDS station which sends weak signal, the display will change in the following order:



Note that pressing DISPLAY button will change tuner information to clock display.
Example:

Using the Radio Data System (RDS) (continued)

■ Using the Auto Station Programme Memory (ASPM)

Whilst in the ASPM operation mode, the tuner will automatically search for new RDS stations. Up to 40 stations can be stored.
If you have already stored some stations in memory, the number of new stations you can store will be less.

1 Press the TUNER button on main unit or FUNCTION button on remote control repeatedly to select the FM band.

2 Press and hold down the RDS ASPM button on the remote control for at least 3 seconds.

1 After “ASPM” has flashed for about 4 seconds, scanning will start (87.50 - 108.00 MHz).

2 When an RDS station is found, “RDS” will appear for a short time and the station will be stored in memory.

3 After scanning, the number of stations stored in memory will be displayed for 4 seconds, and then “END” will appear for 4 seconds.

To stop the ASPM operation before it is completed:
Press the RDS ASPM button whilst it is scanning for stations.
The stations which are already stored in memory will be kept there.

Notes:
- If the same station is broadcasting on different frequencies, the strongest frequency will be stored in memory.
- Any station which has the same frequency as one stored in memory will not be stored.
- If 40 stations have already been stored in memory, the scan will be aborted. If you want to redo the ASPM operation, erase the preset memory.
- If no stations have been stored in memory, “END” will appear for about 4 seconds.
- If the RDS signals are very weak, station names may not be stored in memory.

To store a station name again if the wrong name was stored in memory:
It may be impossible to store station names in memory using the ASPM function if there is lots of noise or if the signal is too weak. In this case, perform as follows.

1 Press the ⏮ or ⏭ button to check whether the names are correct.
2 If you find a wrong name during receiving the station, wait until the correct name will be displayed. And then press the MEMORY button.
3 Within 1 minute, press the MEMORY button whilst the preset channel number is flashing.

- The new station name has been stored in memory correctly.

Notes:
- The same station name can be stored in different channels.
- In a certain area or during certain time periods, the station names may temporarily be different.

■ Notes for RDS operation

If any of the following events occur, it does not mean that the unit is faulty:
- "PS", "NO PS" and a station name appear alternately, and the unit does not operate properly.
- If a particular station is not broadcasting properly or a station is conducting tests, the RDS reception function may not work properly.
- When you receive an RDS station whose signal is too weak, information like the station name may not be displayed.
- "NO PS", "NO PTY" or "NO RT" will flash for about 5 seconds, and then the frequency will be displayed.

Notes for radio text:
- The first 9 characters of the radio text will appear for 4 seconds and then they will scroll across the display.
- If you tune in to an RDS station which is not broadcasting any radio text, "NO RT" will be displayed when you switch to the radio text position.

■ To recall stations in memory

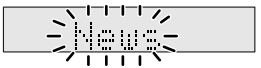
To specify programmed types and select stations (PTY search):
You can search a station by specifying the programme type (news, sports, traffic programme, etc. ... see pages 28 - 29) from the stations in memory.

1 **Press the TUNER button on main unit or FUNCTION button on remote control repeatedly to select the FM band.**

2 **Press the RDS PTY button on the remote control.**

"SELECT" and "PTY TI" will appear alternately for about 6 seconds.

3 **Within 6 seconds, press the ⏮ or ⏭ button to select the programme type.**



Each time the button is pressed, the programme type will appear. If the button is held down for more than 0.5 seconds, the programme type will appear continuously.

4 **Whilst the selected programme type is flashing (within 6 seconds), press the PTY button on remote control.**

After the selected programme type has been lit for 2 seconds, "SEARCH" will appear, and the search operation will start.

Using the Radio Data System (RDS) (continued)

Notes:

- If the display has stopped flashing, start again from step 2. If the unit finds a desired programme type, the corresponding channel number will flash for about 4 seconds, and then the station name will flash for 7 seconds, which will remain lit.
- If you want to listen to the same programme type of another station, press the RDS PTY button whilst the channel number or station name is flashing. The unit will look for the next station.
- If no station can be found, “NOT FOUND” will appear for 4 seconds.

To specify station names and select stations manually:

You can select a station by specifying the name (BBC R1, BBC R2, etc.) from the stations stored in memory.

Before starting this operation, you must store one or more station names in memory.

1 Press the TUNER button to select the FM band.

2 Press the ⏮ or ⏭ button on the remote control to select a desired station.

3 The station name will be displayed for 3 seconds. Then the display will change.

Descriptions of the PTY (Programme Type) codes, TP (Traffic Programme) and TA (Traffic Announcement).

You can search for and receive the following PTY, TP and TA signals.

NEWS	Short accounts of facts, events and publicly expressed views, reportage and actuality.
AFFAIRS	Topical programme expanding or enlarging upon the news, generally in different presentation style or concept, including debate, or analysis.
INFO	Programmes whose purpose is to impart advice in the widest sense.
SPORT	Programme concerned with any aspect of sport.
EDUCATE	Programme intended primarily to educate, of which the formal element is fundamental.
DRAMA	All radio plays and serials.
CULTURE	Programmes concerned with any aspect of national or regional culture, including language, theatre, etc.
SCIENCE	Programmes about the natural sciences and technology.
VARIED	Used for mainly speech-based programmes usually of light-entertainment nature, not covered by other categories. Examples include: quizzes, panel games, personality interviews.
POP M	Commercial music, which would generally be considered to be of current popular appeal, often featuring in current or recent record sales charts.
ROCK M	Contemporary modern music, usually written and performed by young musicians.
EASY M	Current contemporary music considered to be “easy-listening”, as opposed to Pop, Rock or Classical, or one of the specialised music styles, Jazz, Folk or Country. Music in this category is often but not always, vocal, and usually of short duration.

LIGHT M	Classical music for general, rather than specialist appreciation. Examples of music in this category are instrumental music, and vocal or choral works.
CLASSICS	Performances of major orchestral works, symphonies, chamber music, etc., and including Grand Opera.
OTHER M	Musical styles not fitting into any of the other categories. Particularly used for specialist music of which Rhythm & Blues and Reggae are examples.
WEATHER	Weather reports and forecasts and meteorological information.
FINANCE	Stock Market reports, commerce, trading, etc.
CHILDREN	For programmes targeted at a young audience, primarily for entertainment and interest, rather than where the objective is to educate.
SOCIAL	Programmes about people and things that influence them individually or in groups. Includes: sociology, history, geography, psychology and society.
RELIGION	Any aspect of beliefs and faiths, involving a God or Gods, the nature of existence and ethics.
PHONE IN	Involving members of the public expressing their views either by phone or at a public forum.
TRAVEL	Features and programmes concerned with travel to near and far destinations, package tours and travel ideas and opportunities. Not for use for announcements about problems, delays, or roadworks affecting immediate travel where TP/TA should be used.
LEISURE	Programmes concerned with recreational activities in which the listener might participate. Examples include, Gardening, Fishing, Antique collecting, Cooking, Food & Wine, etc.
JAZZ	Polyphonic, syncopated music characterised by improvisation.
COUNTRY	Songs which originate from, or continue the musical tradition of the American Southern States. Characterised by a straightforward melody and narrative story line.
NATION M	Current Popular Music of the Nation or Region in that country's language, as opposed to International “Pop” which is usually US or UK inspired and in English.
OLDIES	Music from the so-called “golden age” of popular music.
FOLK M	Music which has its roots in the musical culture of a particular nation, usually played on acoustic instruments. The narrative or story may be based on historical events or people.
DOCUMENT	Programme concerned with factual matters, presented in an investigative style.
TEST	Broadcast when testing emergency broadcast equipment or receivers.
ALARM !	Emergency announcement made under exceptional circumstances to give warning of events causing danger of a general nature.
NONE	No programme type (receive only).
TP	Broadcasts which carry traffic announcements.
TA	Traffic announcements are being broadcast.

Alarm and sleep operation

■ Alarm

The unit turns on and play desired source (iPod, CD, TUNER, AUX) or Buzzer sound for 30 minutes.

Before setting the alarm:

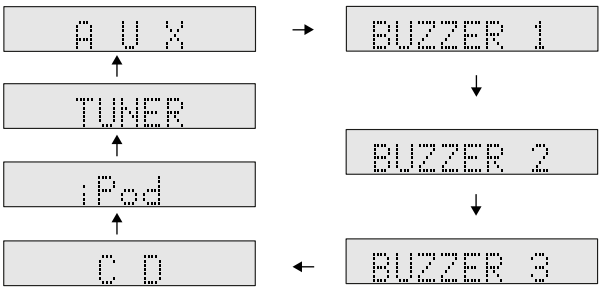
1 Check that the clock is set to the correct time (refer page 13). If it is not set, you cannot use the alarm function.
2 For iPod playback: Insert iPod to the unit (refer page 15).
3 For TUNER: Set preset memory (refer page 24).
4 For CD playback: Insert disc to the unit (refer page 18).

⇩

Setting the alarm content

1 Press and hold the ALARM button for more than 2 seconds.

2 Press the ⏮ or ⏭ button to select source or buzzer.



Press the ALARM button.

3 If TUNER is selected, press the ⏮ or ⏭ button to select a preset station. Press the ALARM button.

4 Press the ⏮ or ⏭ button to adjust the hour. Press the ALARM button.

5 Press the ⏮ or ⏭ button to adjust the minute. Press the ALARM button.

6 If other than BUZZER is selected in step 2, press the ⏮ or ⏭ or VOL (+ or –) button to select volume. Press the ALARM button.

Notes:
- If steps 1 - 6 above are done using the remote control, press the ALARM ON/OFF button on main unit to activate the alarm.
- To switch off illumination and display in demonstration mode, press the E SOUND/DEMO button.

Changing alarm source only
- After source is selected in step 2, press and hold the ALARM button.
- If TUNER is selected, press and hold the ALARM button after preset station is selected in step 3.
- The time and volume will be automatically set to the previous setting.

Activating and deactivating the alarm

Press the ALARM ON/OFF button on main unit to activate and deactivate the alarm function. When activated:
- During power on, “ALARM” will appear.
- During stand-by mode, ALARM indicator will light up.

Switching off the sound and display

To turn off the sound and display, press either CLOCK button, ON/ STAND-BY button or E SOUND/DEMO button.

Checking the alarm setting
- Press the ALARM button.
- The selected source or buzzer type will blink.
- The unit will display the alarm time for 3 seconds.
- During stand-by mode, the display will remain for 6 seconds.

Example: The time is 10:00 AM and iPod function is selected.

Notes:
- **Buzzer sound will be output from right speaker only.**
- Alarm will not activate during power on mode.
- When iPod is selected in step 2, if iPod unit is not detected during alarm activation, source will automatically change to BUZZER 1.
- When CD is selected in step 2, if disc is not detected during alarm activation, source will automatically change to BUZZER 1.
- When performing alarm using another unit connected to AUX, select AUX in step 2. The unit will turn on and enter the clock function automatically, however, the connected unit to AUX will not turn on or off.
- When the entire preset memory is erased (page 24), source will automatically change to BUZZER 1 even if TUNER is pre-selected (step 2).

■ Snooze function

Once alarm has started, pressing the SNOOZE/DIMMER button will stop alarm for 5 minutes.
Once the snooze time has expired, alarm will continue.

■ To turn off the alarm function

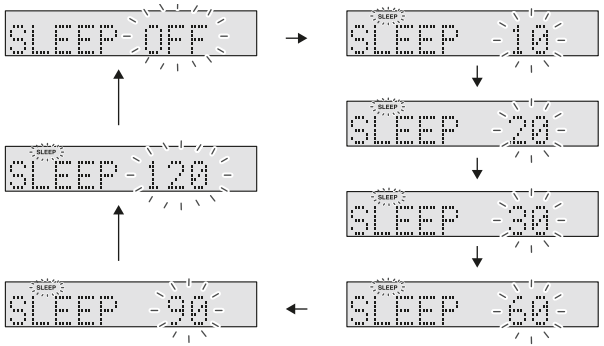
During alarm or snooze, press the ALARM ON/OFF button to turn it off.

■ Sleep operation

The radio, compact disc and iPod can be turned off automatically.

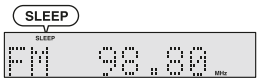
1 Playback the desired sound source.

2 Press the SLEEP button to select sleep time.



3 Press the MEMORY button.

"SLEEP" will appear.



4 The unit will enter the clock function automatically after the preset time has elapsed.

The volume will be turned down 1 minute before the sleep operation finishes.

To confirm the remaining sleep time:

1 Whilst "SLEEP" is indicated, press the SLEEP button on the remote control once to select "SLEEP XXX".
"XXX" is sleep remaining time.

- The remaining sleep time is displayed for about 10 seconds.
- You can change the remaining sleep time whilst it is displayed by pressing the SLEEP button (steps 2 - 3).

To cancel the sleep operation:

Press the ON/STAND-BY button whilst "SLEEP" is indicated.
To cancel the sleep operation without setting the unit to the stand-by mode, proceed as follows.

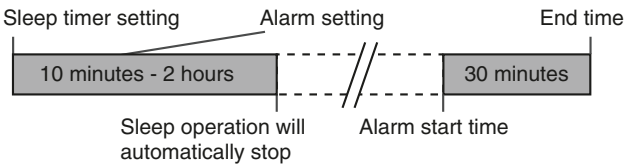
1 Whilst "SLEEP" is indicated, press the SLEEP button to select "SLEEP OFF", and press the MEMORY button.

■ To use alarm and sleep operation together

Sleep and alarm:

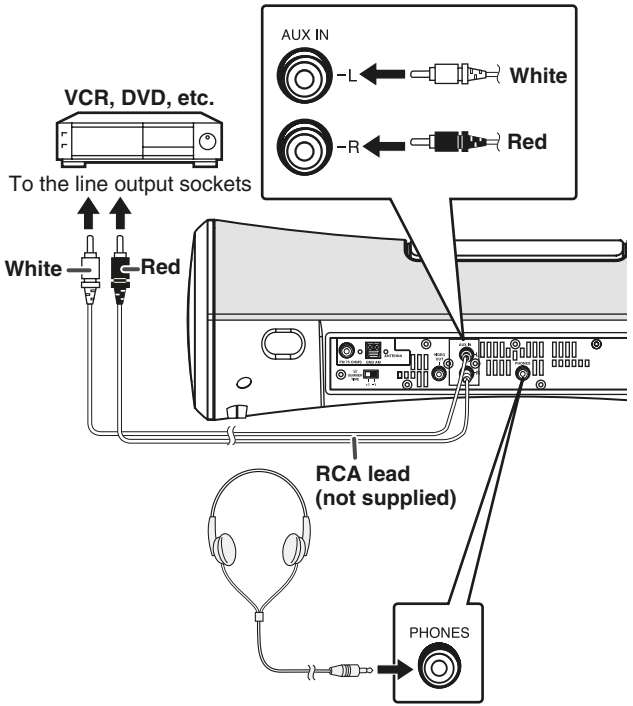
For example, you can fall asleep listening to the radio and wake up to iPod in the next morning.

1 Set the sleep time (see left, steps 1 - 4).
2 Whilst the sleep timer is set, set the alarm (steps 1 - 6, page 30).
3 Activate the alarm (see page 30).



Enhancing your system

The connection lead is not included. Purchase a commercially available lead as shown below.



Auto power on function:
When you press any of the following buttons, the unit turns on.

- AUX button (main unit): The unit turns on and the AUX function is activated.
- ► / II button (main unit and remote control): The unit turns on and playback of the last function starts (iPod, CD, TUNER, AUX).

■ Listening to the playback sounds from VCR, DVD, etc.

1 Use a connection lead to connect the VCR, DVD etc. to the AUX IN sockets.

When using video equipment, connect the audio output to this unit and the video output to a television.

2 Press the ON/STAND-BY button to turn the power on.

3 Press the AUX button on the main unit once or press the FUNCTION button on remote control repeatedly to select AUX. "AUX" indicator will appear.

4 Play the connected equipment.

Note:
To prevent noise interference, place the unit away from the television.

■ Headphones

- Do not turn the volume on to full at switch on and listen to music at moderate levels. Excessive sound pressure from earphones and headphones can cause hearing loss.
- Before plugging in or unplugging the headphones, reduce the volume.
- Be sure your headphones have a 3.5 mm (1/8") diameter plug and impedance between 16 and 50 ohms. The recommended impedance is 32 ohms.
- Plugging in the headphones disconnects the speakers automatically. Adjust the volume using the VOL (+ or –) control.
- During alarm activation, sound will be output to the speaker even if headphones is plugged in.

Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician.
If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

■ General

Symptom	Possible cause
● The clock is not set to the correct time.	● Is the Summer Time switch set to the correct setting? (Refer to page 13) ● Did a power failure occur? Reset the clock. (Refer to page 34)
● When a button is pressed, the unit does not respond.	● Set the unit to the power stand-by mode and then turn it back on. ● If the unit still malfunctions, reset it. (Refer to page 34)
● No sound is heard.	● Is the volume level set to “0”? ● Are the headphones connected?
● iPod door not fully open/close.	● Set the unit to the power stand-by and turn it on again. ● Reset it. (Refer page 34)

■ Remote control

Symptom	Possible cause
● The remote control does not operate.	● Is the AC power lead of the unit plugged in? ● Is the battery polarity correct? ● Are the battery dead? ● Is the distance or angle incorrect? ● Does the remote control sensor receive strong light?

■ Tuner

Symptom	Possible cause
● The radio makes unusual noises continuously.	● Is the unit placed near the TV or computer? ● Is the FM aerial or AM loop aerial placed properly? Move the aerial away from the AC power lead if it is located nearby.

■ CD player

Symptom	Possible cause
● Playback does not start. ● Playback stops in the middle or does not perform properly.	● Is the disc loaded upside down? ● Does the disc satisfy the standards? ● Is the disc distorted or scratched?
● Playback sounds are skipped, or stopped in the middle of a track.	● Is the unit located near excessive vibrations? ● Is the disc very dirty? ● Has condensation formed inside the unit?

■ iPod

Symptom	Possible cause
● No sound is produced. No image appears on the TV/monitor.	● The iPod is not playing. ● The iPod is not properly connected to the unit. ● Is the AC power lead of the unit plugged in? ● The video cable is not properly connected. ● The TV/monitor’s input selection is not properly set.
● iPod will not charge	● Wrong iPod adaptor is used. ● The iPod is not making full contact with the iPod connector. ● The main unit is in stand-by mode.

■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet or on the transmitter on the remote control.
Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.

■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

Troubleshooting chart (continued)

If such a problem occurs, do the following:

1 Set the unit to the stand-by mode and turn the power on again.
2 If the unit is not restored in the previous operation, unplug and plug in the unit, and then turn the power on.

Note:
If neither operation above restores the unit, clear all the memory by resetting it.

■ Clearing all the memory (reset)

1 Press the ON/STAND-BY button to enter the power stand-by mode.
2 Whilst pressing down the SNOOZE/DIMMER button and the E SOUND/DEMO button, press the ON/STAND-BY button until “CLEAR ALL” appears.
3 Can be operate on main unit only.

Caution:
This operation will erase all data stored in memory including clock, alarm settings and tuner preset.

■ Before transporting the unit

Remove the iPod and the disc from the unit. Then, set the unit to the power stand-by mode. Carrying the unit with iPod left docked or disc left inside might damage both the unit and the iPod.

Maintenance

■ Cleaning the cabinet

Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

Caution:
- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.
- Do not apply oil to the inside of the unit. It may cause malfunctions.

■ Cleaning the CD pickup lens

In order to ensure proper operation of the CD player, preventative maintenance (cleaning of the laser pickup lens) should be performed periodically. Lens cleaners are commercially available. Contact your local CD software dealer for options.

Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

■ General

Power source	AC 220 - 240 V, 50 Hz
Power consumption	Power on: 34 W Power stand-by: 0.6 W (*)
Output power	Front Speaker: RMS: 4 W (2 W + 2 W) (10% T.H.D.) RMS: 4 W (2 W + 2 W) (0.9% T.H.D.)
	Subwoofer: RMS: 10 W (5 W + 5 W) (10% T.H.D.) RMS: 6 W (3 W + 3 W) (0.9% T.H.D.)
Speaker	1-way type light-up speaker system Front Speaker: 6.5 cm (2-1/2") - 12 ohms - Full Range Subwoofer: 10 cm (4") - 8 ohms - Woofer
Speaker maximum input power	Front Speakers: 4W/ Channel Subwoofer: 10W / Channel
Speaker rated input power	Front Speakers: 2W / Channel Subwoofer: 5W / Channel
Output terminals	Headphones: 16 - 50 ohms (recommended: 32 ohms) Video output: 1Vp-p
Input terminals	Auxiliary (audio signal): 500 mV/47 k ohms
Dimensions	Width: 500 mm (19-11/16") Height: 150 mm (5-7/8") Depth: 250 mm (9-7/8")
Weight	5.3 kg (11.7 lbs.)

*This power consumption value is obtained when the demonstration mode is cancelled in the power stand-by mode. Refer to page 10 to cancel the demonstration mode.

■ Tuner

Frequency range	FM: 87.5 - 108 MHz AM: 522 - 1,620 kHz

■ CD player

Type	Single disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	Multi bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

TERMS OF GUARANTEE

Sharp Electronics (UK) Ltd. (“Sharp”) guarantees to provide for the repair, or at its option the replacement, of this product subject to the conditions listed below:-

1. This guarantee shall only apply to faults which are due to inferior workmanship or materials. It does not cover faults or damage caused by accident, misuse, fair wear and tear, neglect, tampering with the product, or repair other than by a Service Facility appointed by Sharp.

2. As this product is intended for private domestic use only, the guarantee will not apply if the product is used in the course of a business, trade or profession.

3. To benefit from this guarantee, any fault which occurs must be notified to Sharp, or its appointed Service Facility within one year from the date this product was purchased. Proof of purchase must be provided.

4. The guarantee does not cover carriage costs, audio tapes, compact discs or batteries.

5. In the unlikely event of this product requiring repair, please contact the supplier from whom it was purchased. Where this is not possible, please contact the Sharp Customer Information Centre on the telephone number given below.

6. No person has any authority to vary the terms or conditions of this guarantee.

7. This guarantee is offered as an additional benefit to your statutory rights, and does not affect these rights in any way.

If you have any difficulty operating this product, or would like information on other Sharp products, please telephone the Sharp Customer Information Centre on the number given below.

Sharp Customer Information Centre - Telephone 0845 880 0512
(or (01) 676 0648 if telephoning from Ireland)

Customer support website address - www.sharp.co.uk/customersupport.aspx

SHARP

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